

## Claims

1. A bow sight system for use in conjunction with a pin sight the bow sight comprising;

5 a base plate for mounting on a bow, the base plate having a front for orienting forwardly on the bow and a rear for orienting rearwardly on the bow, the base plate having a mounting portion for being mounted on the bow and a support portion extending from the mounting portion, the base plate being elongated in a longitudinal direction for the base plate and having a longitudinal axis;

10 a sighting assembly having a sight groove for guiding and aiming the bow, the sight groove extending along an axis oriented substantially parallel to the plane of the support plate, the sighting assembly being mounted on the base plate in a manner so that the sighting assembly is adjustably movable with respect to the base plate along an axis that is substantially perpendicular to a plane of the support portion of the base plate to permit 15 adjustment of the position of the sight groove of the sighting assembly in a horizontal direction, the sighting assembly being mounted on the base plate in a manner so that the sighting assembly is adjustably movable in a plane that is oriented substantially perpendicular to the longitudinal axis of the base plate to permit adjustments of the sight groove in a vertical direction when the sighting assembly is mounted on the bow.

20 2. The bow sight system of claim 1 additionally comprising a bow string mounted thereon, the bow sight assembly being mounted on the bow in a position rearward of the bow toward the string for orienting toward an archer when the archer draws the string of the bow.

25 3. The bow sight of claim 2 additionally comprising a pin sight assembly mounted on the bow in a position forward of the bow away from the archer such that the bow is located between the pin sight assembly and the bow sight assembly when the user draws the string of the bow.

30 4. The bow sight of claim 1 wherein the sighting assembly comprises:

a pedestal slidably mounted on the base plate and having a channel formed therein; a mast member mounted on the pedestal with an end portion of the mast member being positioned in the channel of the pedestal such that a position of the mast member in the channel is adjustable, the sight groove being mounted on the mast member.

35 5. The bow sight system of claim 4 wherein the sight groove has a substantially V-shaped cross section, the sight groove being located near a top edge of a sight guide such that said sight guide will obscure the archer's view below the V shaped cross section.

40 6. The bow sight system of claim 5 additionally comprising a pair of alignment marks on the sight guide, each of the alignment marks being located on an 45 opposite side of the sight groove.

7. The bow sight of claim 6 additionally comprising a light assembly being positioned to light the alignment marks such that the alignment marks will be visible in low light conditions.
- 5 8. A bow sight system for improving aiming of an arrow fired by a bow having a forward sight near a forward portion of the bow, the bow sight system comprising:
  - 10 a first plate attachable to the bow; a bow sight assembly adjustably mounted to said first plate for adjusting the position of the sight assembly relative to the bow, fasteners to lock the position of the sight assembly relative to the first plate; said bow sight assembly including a rear sight spaced from said forward sight in a direction substantially parallel to a direction of flight of an arrow fired by said bow.
  - 15 9. The bow sight of claim 8 wherein the rear sight has a V-shape such that an archer can sight the forward sight through the V.
  10. The bow sight of claim 8 wherein the rear sight is a groove having a front edge visible to an archer and a rear edge, a distance from the front edge to the rear edge defining a thickness of the rear sight such that a misalignment of an eye of the archer relative to the rear sight will obscure the archer's view of the front sight through the rear sight.
  - 25 11. The bow sight of claim 10 wherein the groove has a V shaped cross section and wherein the front sight is a pin sight.
  12. The bow sight of claim 11 including a pair of alignment marks on either side of the groove.
  - 30 13. The bow sight of claim 12 including a light mounted for movement with said bow sight assembly, said light illuminating said alignment marks.
  14. A bow sight for use in conjunction with a target pin sight on a bow, the bow sight comprising;
    - 35 a base plate for mounting on a bow; a sighting assembly mounted on the base plate in a manner such that the sighting assembly is adjustably movable with respect to the base plate along an axis perpendicular to the base plate; said sighting assembly configured to be mounted on the bow at a distance from said pin sight.
    - 40 15. The bow sight of claim 14 wherein said sighting assembly includes a block with a sight groove having a length in said direction such that an archer's view through said groove will be obscured by the block if said bow or said archer's body is misaligned.
    - 45 16. The bow sight of claim 15 wherein the groove is a V notch.

17. The bow sight of claim 15 including an alignment mark on each side of said groove.
- 5 18. The bow sight of claim 17 including a light to illuminate said alignment mark on each side of said groove such that the alignment marks are visible in low light.
- 10 19. A bow for firing an arrow comprising a bow having a string; a sight on a front portion of said bow and a sighting groove on a rear portion of said bow such that an archer can sight through said sighting groove at said front sight only when said bow and archer are properly aligned.
- 15 20. The bow of claim 19 wherein said sighting groove is fixed relative to said bow and to said front sight.
21. The bow of claim 20 wherein said front sight is a pin sight.

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